

CRF Errors Corrected by the STIC Systems Branch

PCT 10

Serial Numbr: 10/089,984

CRF Processing Date: 5/1/02
Edited by: DC (STIC staff)

Changed a file from non-ASCII to ASCII

Changed the margins in cases where the sequence text was "wrapped" down to the next line. **ENTERED**

Edited a format error in the Current Application Data section, specifically:

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____.

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included:

Deleted extra, invalid, headings used by an applicant, specifically:

Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as _____.

Inserted mandatory headings, specifically:

Corrected an obvious error in the response, specifically:

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____.

Other:

* Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



PCT10

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/089,984

DATE: 05/01/2002
 TIME: 11:44:38

Input Set : A:\PTO.DC.txt
 Output Set: N:\CRF3\05012002\J089984.raw

3 <110> APPLICANT: Bumol, Thomas F.
 4 Cohen, Fredric, J.
 6 <120> TITLE OF INVENTION: Therapeutic Applications of FLINT Polypeptides
 8 <130> FILE REFERENCE: X-13199
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/089,984
 C--> 11 <141> CURRENT FILING DATE: 2002-04-03
 13 <160> NUMBER OF SEQ ID NOS: 5
 15 <170> SOFTWARE: PatentIn Ver. 2.0
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 271
 19 <212> TYPE: PRT
 20 <213> ORGANISM: Homo sapiens
 22 <400> SEQUENCE: 1
 23 Val Ala Glu Thr Pro Thr Tyr Pro Trp Arg Asp Ala Glu Thr Gly Glu
 24 1 5 10 15
 26 Arg Leu Val Cys Ala Gln Cys Pro Pro Gly Thr Phe Val Gln Arg Pro
 27 20 25 30
 29 Cys Arg Arg Asp Ser Pro Thr Thr Cys Gly Pro Cys Pro Pro Arg His
 30 35 40 45
 32 Tyr Thr Gln Phe Trp Asn Tyr Leu Glu Arg Cys Arg Tyr Cys Asn Val
 33 50 55 60
 35 Leu Cys Gly Glu Arg Glu Glu Ala Arg Ala Cys His Ala Thr His
 36 65 70 75 80
 38 Asn Arg Ala Cys Arg Cys Arg Thr Gly Phe Phe Ala His Ala Gly Phe
 39 85 90 95
 41 Cys Leu Glu His Ala Ser Cys Pro Pro Gly Ala Gly Val Ile Ala Pro
 42 100 105 110
 44 Gly Thr Pro Ser Gln Asn Thr Gln Cys Gln Pro Cys Pro Pro Gly Thr
 45 115 120 125
 47 Phe Ser Ala Ser Ser Ser Ser Glu Gln Cys Gln Pro His Arg Asn
 48 130 135 140
 50 Cys Thr Ala Leu Gly Leu Ala Leu Asn Val Pro Gly Ser Ser Ser His
 51 145 150 155 160
 53 Asp Thr Leu Cys Thr Ser Cys Thr Gly Phe Pro Leu Ser Thr Arg Val
 54 165 170 175
 56 Pro Gly Ala Glu Glu Cys Glu Arg Ala Val Ile Asp Phe Val Ala Phe
 57 180 185 190
 59 Gln Asp Ile Ser Ile Lys Arg Leu Gln Arg Leu Leu Gln Ala Leu Glu
 60 195 200 205
 62 Ala Pro Glu Gly Trp Gly Pro Thr Pro Arg Ala Gly Arg Ala Ala Leu
 63 210 215 220
 65 Gln Leu Lys Leu Arg Arg Arg Leu Thr Glu Leu Leu Gly Ala Gln Asp
 66 225 230 235 240

RAW SEQUENCE LISTING
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Input Set : A:\PTO.DC.txt
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68 Gly Ala Leu Leu Val Arg Leu Leu Gln Ala Leu Arg Val Ala Arg Met
69 245 250 255
71 Pro Gly Leu Glu Arg Ser Val Arg Glu Arg Phe Leu Pro Val His
72 260 265 270
79 <210> SEQ ID NO: 2
80 <211> LENGTH: 813
81 <212> TYPE: DNA
82 <213> ORGANISM: Homo sapiens
84 <400> SEQUENCE: 2
85 gtggcagaaa caccaccta cccctggcg gacgcagaga caggggagcg gctgggtgc 60
86 gcccagtgcc ccccaaggcac ctgtgcag cggccgtgcc gccgagacag ccccacgacg 120
87 tgtggccgtgt ccactacacg cagttctgga actacctgga gcgtgtccgc 180
88 tactgcaacg tctctgcgg ggagcgtgag gaggaggcac gggcttgcca cggcaccac 240
89 aaccgtgcct gccgctgcgg caccggcttc ttcgcgcacg ctggtttctg cttggagcac 300
90 gcatcggtgc cacctggtgc cggcgtgatt gccccggca ccccaagcca gaacacgcag 360
91 tgccagccgt gccccccagg caccttctca gccagcagct ccagetcaga gcagtggccag 420
92 ccccaccgcgca actgcacggc cctggggctg gcccataatg tgccaggctc ttccctccat 480
93 gacaccctgt gcaccagctg cactggcttc cccctcagca ccagggttacc aggagctgag 540
94 gagttgtgagc gtgcgcgtcat cgactttgtg gttttccagg acatctccat caagaggctg 600
95 cagcggctgc tgcaggccct cgaggccccg gagggtctggg gtcgcacacc aaggcgggc 660
96 cgcggccct tgcagctgaa gctgcgtcgg cggctcacgg agctctggg ggcgcaggac 720
97 ggggcgctgc tgggtgcggct gctgcaggcg ctgcgcgtgg ccaggatgcc cgggctggag 780
98 cggagcgtcc gtgagcgtctt cctccctgtc cac 813
100 <210> SEQ ID NO: 3
101 <211> LENGTH: 300
102 <212> TYPE: PRT
103 <213> ORGANISM: Homo sapiens
105 <400> SEQUENCE: 3
106 Met Arg Ala Leu Glu Gly Pro Gly Leu Ser Leu Leu Cys Leu Val Leu
107 1 5 10 15
109 Ala Leu Pro Ala Leu Leu Pro Val Pro Ala Val Arg Gly Val Ala Glu
110 20 25 30
112 Thr Pro Thr Tyr Pro Trp Arg Asp Ala Glu Thr Gly Glu Arg Leu Val
113 35 40 45
115 Cys Ala Gln Cys Pro Pro Gly Thr Phe Val Gln Arg Pro Cys Arg Arg
116 50 55 60
118 Asp Ser Pro Thr Thr Cys Gly Pro Cys Pro Pro Arg His Tyr Thr Gln
119 65 70 75 80
121 Phe Trp Asn Tyr Leu Glu Arg Cys Arg Tyr Cys Asn Val Leu Cys Gly
122 85 90 95
124 Glu Arg Glu Glu Ala Arg Ala Cys His Ala Thr His Asn Arg Ala
125 100 105 110
127 Cys Arg Cys Arg Thr Gly Phe Phe Ala His Ala Gly Phe Cys Leu Glu
128 115 120 125
130 His Ala Ser Cys Pro Pro Gly Ala Gly Val Ile Ala Pro Gly Thr Pro
131 130 135 140
133 Ser Gln Asn Thr Gln Cys Gln Pro Cys Pro Pro Gly Thr Phe Ser Ala
134 145 150 155 160
136 Ser Ser Ser Ser Glu Gln Cys Gln Pro His Arg Asn Cys Thr Ala

RAW SEQUENCE SETTING
PATENT APPLICATION: US/10/089,984

DATE 01/01/2002
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Input Set : A:\PTO.DC.txt
Output Set: N:\CRF3\05012002\J089984.raw

| | | | | | | | | | | | | | | | | | |
|-----------|------------|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 137 | 165 | 170 | 175 | | | | | | | | | | | | | | |
| 139 Leu | Gly | Leu | Ala | Leu | Asn | Val | Pro | Gly | Ser | Ser | Ser | His | Asp | Thr | Leu | | |
| 140 | 180 | 185 | 190 | | | | | | | | | | | | | | |
| 142 Cys | Thr | Ser | Cys | Thr | Gly | Phe | Pro | Leu | Ser | Thr | Arg | Val | Pro | Gly | Ala | | |
| 143 | 195 | 200 | 205 | | | | | | | | | | | | | | |
| 145 Glu | Glu | Cys | Glu | Arg | Ala | Val | Ile | Asp | Phe | Val | Ala | Phe | Gln | Asp | Ile | | |
| 146 | 210 | 215 | 220 | | | | | | | | | | | | | | |
| 148 Ser | Ile | Lys | Arg | Leu | Gln | Arg | Leu | Leu | Gln | Ala | Leu | Glu | Ala | Pro | Glu | | |
| 149 | 225 | 230 | 235 | 240 | | | | | | | | | | | | | |
| 151 Gly | Trp | Gly | Pro | Thr | Pro | Arg | Ala | Gly | Arg | Ala | Ala | Leu | Gln | Leu | Lys | | |
| 152 | 245 | 250 | 255 | | | | | | | | | | | | | | |
| 154 Leu | Arg | Arg | Arg | Leu | Thr | Glu | Leu | Leu | Gly | Ala | Gln | Asp | Gly | Ala | Leu | | |
| 155 | 260 | 265 | 270 | | | | | | | | | | | | | | |
| 157 Leu | Val | Arg | Leu | Leu | Gln | Ala | Leu | Arg | Val | Ala | Arg | Met | Pro | Gly | Leu | | |
| 158 | 275 | 280 | 285 | | | | | | | | | | | | | | |
| 160 Glu | Arg | Ser | Val | Arg | Glu | Arg | Phe | Leu | Pro | Val | His | | | | | | |
| 161 | 290 | 295 | 300 | | | | | | | | | | | | | | |
| 164 <210> | SEQ ID NO: | 4 | | | | | | | | | | | | | | | |
| 165 <211> | LENGTH: | 29 | | | | | | | | | | | | | | | |
| 166 <212> | TYPE: | PRT | | | | | | | | | | | | | | | |
| 167 <213> | ORGANISM: | Homo sapiens | | | | | | | | | | | | | | | |
| 169 <400> | SEQUENCE: | 4 | | | | | | | | | | | | | | | |
| 170 Met | Arg | Ala | Leu | Glu | Gly | Pro | Gly | Leu | Ser | Leu | Cys | Leu | Val | Leu | | | |
| 171 | 1 | 5 | 10 | 15 | | | | | | | | | | | | | |
| 173 Ala | Leu | Pro | Ala | Leu | Leu | Pro | Val | Pro | Ala | Val | Arg | Gly | | | | | |
| 174 | 20 | 25 | | | | | | | | | | | | | | | |
| 177 <210> | SEQ ID NO: | 5 | | | | | | | | | | | | | | | |
| 178 <211> | LENGTH: | 936 | | | | | | | | | | | | | | | |
| 179 <212> | TYPE: | DNA | | | | | | | | | | | | | | | |
| 180 <213> | ORGANISM: | Homo sapiens | | | | | | | | | | | | | | | |
| 182 <220> | FEATURE: | | | | | | | | | | | | | | | | |
| 183 <221> | NAME/KEY: | CDS | | | | | | | | | | | | | | | |
| 184 <222> | LOCATION: | (25)..(924) | | | | | | | | | | | | | | | |
| 186 <400> | SEQUENCE: | 5 | | | | | | | | | | | | | | | |
| 187 | gctctccctg | ctccagcaag | gacc | atg | agg | gcg | ctg | gag | ggg | cca | ggc | ctg | 51 | | | | |
| 188 | | | | | | | | | | | | | | | | | |
| 189 | | | | 1 | | | | | 5 | | | | | | | | |
| 191 | tcg | ctg | ctg | ctg | gtg | ttg | gcg | ctg | cct | gcc | ctg | ccg | gtg | ccg | 99 | | |
| 192 | Ser | Leu | Leu | Cys | Leu | Val | Leu | Ala | Leu | Pro | Ala | Leu | Pro | Val | Pro | | |
| 193 | 10 | | | | 15 | | | | 20 | | | | 25 | | | | |
| 195 | gct | gta | cgc | gga | gtg | gca | gaa | aca | ccc | acc | tac | ccc | tgg | ccg | gac | gca | 147 |
| 196 | Ala | Val | Arg | Gly | Val | Ala | Glu | Thr | Pro | Thr | Tyr | Pro | Trp | Arg | Asp | Ala | |
| 197 | | | | | | | | | 30 | 35 | | | 40 | | | | |
| 199 | gag | aca | ggg | gag | cg | ctg | gtg | tgc | gcc | cag | tgc | ccc | cca | ggc | acc | ttt | 195 |
| 200 | Glu | Thr | Gly | Glu | Arg | Leu | Val | Cys | Ala | Gln | Cys | Pro | Pro | Gly | Thr | Phe | |
| 201 | | | | | | | | | 45 | 50 | | | 55 | | | | |
| 205 | gtg | cag | cgg | ccg | tgc | cgc | cga | gac | agc | ccc | acg | acg | tgt | ggc | ccg | tgt | 243 |
| 206 | Val | Gln | Arg | Pro | Cys | Arg | Asp | Ser | Pro | Thr | Thr | Cys | Gly | Pro | Cys | | |
| 207 | | | | | | | | | 60 | 65 | | | 70 | | | | |

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/089,984

DATE: 01/01/2002
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Input Set : A:\PTO.DC.txt
Output Set: N:\CRF3\05012002\J089984.raw

| | |
|---|-----|
| 209 cca ccg cgc cac tac acg cag ttc tgg aac tac ctg gag cgc tgc cgc | 291 |
| 210 Pro Pro Arg His Tyr Thr Gln Phe Trp Asn Tyr Leu Glu Arg Cys Arg | |
| 211 75 80 85 | |
| 213 tac tgc aac gtc ctc tgc ggg gag cgt gag gag gag gca cgg gct tgc | 339 |
| 214 Tyr Cys Asn Val Leu Cys Gly Glu Arg Glu Glu Ala Arg Ala Cys | |
| 215 90 95 100 105 | |
| 217 cac gcc acc cac aac cgt gcc tgc cgc tgc cgc acc ggc ttc ttc gcg | 387 |
| 218 His Ala Thr His Asn Arg Ala Cys Arg Cys Arg Thr Gly Phe Phe Ala | |
| 219 110 115 120 | |
| 221 cac gct ggt ttc tgc ttg gag cac gca tgc tgt cca cct ggt gcc ggc | 435 |
| 222 His Ala Gly Phe Cys Leu Glu His Ala Ser Cys Pro Pro Gly Ala Gly | |
| 223 125 130 135 | |
| 225 gtg att gcc ccg ggc acc ccc agc cag aac acg cag tgc cag cgc tgc | 483 |
| 226 Val Ile Ala Pro Gly Thr Pro Ser Gln Asn Thr Gln Cys Gln Pro Cys | |
| 227 140 145 150 | |
| 229 ccc cca ggc acc ttc tca gcc agc agc tcc agc tca gag cag tgc cag | 531 |
| 230 Pro Pro Gly Thr Phe Ser Ala Ser Ser Ser Ser Glu Gln Cys Gln | |
| 231 155 160 165 | |
| 233 ccc cac cgc aac tgc acg gcc ctg ggc ctg gcc ctc att gtg cca ggc | 579 |
| 234 Pro His Arg Asn Cys Thr Ala Leu Gly Leu Ala Leu Ile Val Pro Gly | |
| 235 170 175 180 185 | |
| 237 tct tcc tcc cat gac acc ctg tgc acc agc tgc act ggc ttc ccc ctc | 627 |
| 238 Ser Ser Ser His Asp Thr Leu Cys Thr Ser Cys Thr Gly Phe Pro Leu | |
| 239 190 195 200 | |
| 241 agc acc agg gta cca gga gct gag gag tgt gag cgt gcc gtc atc gac | 675 |
| 242 Ser Thr Arg Val Pro Gly Ala Glu Glu Cys Glu Arg Ala Val Ile Asp | |
| 243 205 210 215 | |
| 245 ttt gtg gct ttc cag gac atc tcc atc aag agg ctg cag cgg ctg ctg | 723 |
| 246 Phe Val Ala Phe Gln Asp Ile Ser Ile Lys Arg Leu Gln Arg Leu Leu | |
| 247 220 225 230 | |
| 249 cag gcc ctc gag gcc ccg gag ggc tgg gct ccg aca agg ggc ggc | 771 |
| 250 Gln Ala Leu Glu Ala Pro Glu Gly Trp Ala Pro Thr Pro Arg Ala Gly | |
| 251 235 240 245 | |
| 253 cgc gcg gcc ttg cag ctg aag ctg cgt cgg cgg ctc acg gag ctc ctg | 819 |
| 254 Arg Ala Ala Leu Gln Leu Lys Leu Arg Arg Arg Leu Thr Glu Leu Leu | |
| 255 250 255 260 265 | |
| 257 ggg gcg cag gac ggg gcg ctg ctg gtg cgg ctg ctg cag gcg ctg cgc | 867 |
| 258 Gly Ala Gln Asp Gly Ala Leu Leu Val Arg Leu Leu Gln Ala Leu Arg | |
| 259 270 275 280 | |
| 263 gtg gcc agg atg ccc ggg ctg gag cgg agc gtc cgt gag cgc ttc ctc | 915 |
| 264 Val Ala Arg Met Pro Gly Leu Glu Arg Ser Val Arg Glu Arg Phe Leu | |
| 265 285 290 295 | |
| 267 cct gtg cac tgatcctggc cc | 936 |
| 268 Pro Val His | |
| 269 300 | |

RAW SEQUENCE STRING ERROR SUMMARY
PATENT APPLICATION: US/10/089,984

DATE: 01/01/2002
TIME: 11:44:39

Input Set : A:\PTO.DC.txt
Output Set: N:\CRF3\05012002\J089984.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24
Seq#:1; Line(s) 25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44
Seq#:1; Line(s) 45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64
Seq#:1; Line(s) 65,66,67,68,69,70,71,72,73,79
Seq#:2; Line(s) 80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99
Seq#:2; Line(s) 100
Seq#:3; Line(s) 101,102,103,104,105,106,107,108,109,110,111,112,113,114,115
Seq#:3; Line(s) 116,117,118,119,120,121,122,123,124,125,126,127,128,129,130
Seq#:3; Line(s) 131,132,133,134,135,136,137,138,139,140,141,142,143,144,145
Seq#:3; Line(s) 146,147,148,149,150,151,152,153,154,155,156,157,158,159,160
Seq#:3; Line(s) 161,162,163,164
Seq#:4; Line(s) 165,167,168,169,170,171,172,173,174,175,176,177
Seq#:5; Line(s) 178,179,180,181,182,183,184,185,186,187,188,189,190,191,192
Seq#:5; Line(s) 193,194,195,196,197,198,199,200,201,205,206,207,208,209,210
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Seq#:5; Line(s) 242,243,244,245,246,247,248,249,250,251,252,253,254,255,256
Seq#:5; Line(s) 257,258,259,263,264,265,266,267,268,269

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/089,984

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Input Set : A:\PTO.DC.txt
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L:10 M:270 C: Current Application Number differs, Replaced Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date